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09/923,054 08/06/2001 Susumu Nikawa FUJA 18.905 9863 26304 7590 09/23/2004 EXAMINER KATTEN MUCHIN ZAVIS ROSENMAN ELAHEE, MD S 575 MADISON AVENUE ELAHEE, MD S					
26304 7590 09/23/2004 EXAMINER KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE NEW YORK, NY 10022-2585 ART UNIT PAPER NUMBER 2645	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE NEW YORK, NY 10022-2585 ART UNIT PAPER NUMBER 2645	09/923,054	08/06/2001	Susumu Nikawa	FUJA 18.905	9863
575 MADISON AVENUE NEW YORK, NY 10022-2585 ART UNIT PAPER NUMBER 2645	26304	7590 09/23/2004		EXAMINER	
NEW YORK, NY 10022-2585 ART UNIT PAPER NUMBER 2645 9				ELAHEE, MD S	
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DATE MAILED: 09/23/2004			•	2645	9
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Anglicantia				
	Application No.	Applicant(s)				
Office Action Summany	09/923,054	NIKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Md S Elahee	2645				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a reply be tin in. a reply within the statutory minimum of thirty (30) day eriod will apply and will expire SIX (6) MONTHS from statute, cause the application to become ABANDONE	nely filed rs will be considered timely. It he mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	.					
·— · · _ ·	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) ☐ The specification is objected to by the Exa 10) ☑ The drawing(s) filed on 06 August 2001 is Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the	fare: a)⊠ accepted or b)□ objected or the drawing(s) be held in abeyance. Se prrection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	ı (PTO- 4 13)				
 Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>08</u>. 	8) Paper No(s)/Mail D					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano (U.S. Patent No. 5,751,172) and in view of Yamawaki (U.S. Patent No. 5,159,543).

Regarding claim 1, Takano teaches a DC/DC converter for supplying power to the display unit (fig.2; col.3, lines 23-26).

Takano further teaches a frequency switching unit for selectively switching and supplying one of a plurality of switching clock frequencies (fig.2; col.3, lines 52-59)

However, Takano does not specifically teach supplying one of a plurality of switching clock frequencies to the DC/DC converter. Yamawaki teaches supplying one of a plurality of switching clock frequencies to the DC/DC converter (col.2, lines 20-31). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Takano to allow supplying one of a plurality of switching clock frequencies to the DC/DC converter as taught by Yamawaki. The motivation for the modification is to have doing so in order to control the DC/DC converter so that there will be reduced power consumption in case of no communication.

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Takano further teaches a CPU (i.e., display mode detecting unit) for detecting that the display unit has been switched to a display halted (i.e., predetermined low-power consumption) mode, determining one of the plurality of switching clock frequencies according to power consumption reduced in the display halted mode based on this detection, and instructing the clock frequency generating circuit (i.e., frequency switching unit) to execute this selective switching (col.3, lines 52-59, col.4, lines 23-27, 44-47, 55-60). (Note; when the display is halted, clock frequency is set to the lowest speed (see col.4, lines 55-57))

Regarding claim 2, Takano teaches the display mode detecting unit determines lower one of the plurality of switching clock frequencies, when the display unit has been switched to a lower-power consumption mode (col.4, lines 23-27, 44-47, 55-60).

3. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano (U.S. Patent No. 5,751,172) and in view of Irube et al. (U.S. Patent No. 6,377,818).

Regarding claims 3 and 4 are rejected for the same reasons as discussed above with respect to claim 1. Furthermore, Takano teaches monitoring the display unit to see whether the display unit is in a halted mode or not (fig.2; col.5, lines 54-59, col.6, lines 12-20).

However, Takano does not specifically teach display color number limiting mode. Irube teaches display color number limiting mode (col.15, lines 38-51). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Takano to allow display color number limiting mode as taught by Irube. The motivation for the modification is to have doing so in order to determine a movement instruction of the display region in the vertical direction.

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Takano further teaches switching the frequency to the determined switching clock frequency, and operating the DC/DC converter at this frequency (col.3, lines 52-59, col.4, lines 23-27, 44-47, 55-60).

4. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano (U.S. Patent No. 5,751,172) and in view of Yamawaki (U.S. Patent No. 5,159,543) and further in view of Irube et al. (U.S. Patent No. 6,377,818).

Regarding claims 5 and 6, Takano teaches that the display unit (col.4, lines 23-27).

However, Takano in view of Yamawaki does not specifically teach an LCD display unit. Irube teaches an LCD display unit (col.14, lines 50-55). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Takano in view of Yamawaki to allow an LCD display unit as taught by Irube. The motivation for the modification is to have doing so in order to display a video sensed by the camera unit on the video LCD.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nonami (U.S. Patent No. 5,054,052) teach Mobile telephone device with low power consumption, He et al. (U.S. Patent No. 6,323,849) teach Display module with reduced power consumption, Cannon et al. (U.S. Patent No. 6,501,969) teach Extended power savings for electronic devices and Radar (U.S. Patent No. 5,867,140) teach Display system and circuit therefor.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Md S Elahee whose telephone number is (703) 305-4822. The examiner can normally be reached on Mon to Fri from 8:30am to 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (703) 305-4895. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. ϵ . MD SHAFIUL ALAM ELAHEE September 13, 2004

> FAN TSANG SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

> > Jan J